

ABSTRACT

A lens array (12) is arranged in front of the screen (11) of an image display at a distance of $S1$. The lens array (12) consists of
5 lenses (121, 122) having focal lengths $f1$ and $f2$. The focal length $f1$ and $f2$ and the distance $S1$ determine the forming positions of first and second imaging planes (13, 14). The first imaging plane (13) is formed at a position of distance $S3$ from the lens array (12) and the second imaging plane (14) is formed at a position of distance $S2$.
10 More specifically, a pixel (111) on the screen (11) is imaged as a first imaging element (131) of the first imaging plane (13) at a position of $S1+S3$ from the screen (11) and a pixel (112) on the screen (11) is imaged as a second imaging element (142) of the second imaging plane (14) at a position $S1+S2$ from the screen (11). A viewer (15)
15 can attain stereoscopic feeling when viewing them.